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PHOTOGRAPHIC INTELLIGENCE REPORT

RUSTAVI METALLURGICAL WORKS

RUSTAVI, USSR



November 1958  
PIC/DP-7/58

Job # 68-T-31  
Box IV

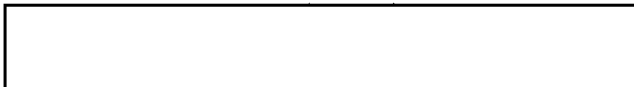
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CENTRAL INTELLIGENCE AGENCY

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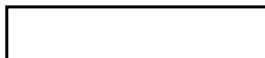


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PHOTOGRAPHIC INTELLIGENCE REPORT

RUSTAVI METALLURGICAL WORKS

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November 1958

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## PREFACE

This analysis of the Rustavi Metallurgical Works is based on small-format photography [REDACTED]

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[REDACTED] This report has been prepared by the CIA Photographic Intelligence Center. A brief description of this metallurgical plant was previously reported in RR-GP/DP-1/57 [REDACTED] dated 2 October 1957. However, additional photo coverage over this area has made possible this more detailed analysis.

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### U. S. S. R. CAUCASUS

--- International boundary

⊙ National capital

— Road (selected)

— Railroad (selected)

Scale 1:8,500,000

0 100 200 300 Miles  
0 100 200 300 Kilometers

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RUSTAVI METALLURGICAL WORKS  
RUSTAVI, USSR

The Rustavi Metallurgical Works\* is located approximately 20 miles southeast of Tbilisi (Tiflis), in the Georgian SSR (see map of Caucasus region). The plant is situated east of the chief residential and commercial area of Rustavi (see map of Rustavi, USSR). Construction of the plant began before World War II and was completed in the five-year period following the end of the war. The plant area has an irregular shape and measures approximately 12,000 by 4,000 feet over-all. A 10-foot-high wall, with several gates at rail and road entrances, encloses the entire plant. The plant is fully integrated and highly mechanized. It produces metallurgical coke, pig iron, and steel. Blooming and rolling mills fabricate the steel ingots into semifinished and finished products. Several rail spurs, having a loop-type arrangement, connect the plant with the Tbilisi/Baku railroad. Within the plant there are two small rail yards, and numerous spurs serve almost every building and facility.

The following list of annotations indicates the functional divisions and identifies individual components of the Rustavi Metallurgical Works (see plant layout). Aerial views of various portions of the plant and contiguous areas also accompany this report.

A. Coke Oven Area

1. Coal storage yard
2. Bridge crane
3. Coal conveyor
4. Coal crushing and screening building
5. Coal mixing building
6. Coaling tower in center of coke ovens
7. Two tall stacks for exhaust gas
8. Quenching tower

B. By-Products Plant

1. Primary coolers
2. Tar separation
3. Ammonia products buildings with adjacent overhead crane serving several small storage tanks.
4. Fractionating towers
5. Benzol towers
6. By-products building
7. Administration buildings
8. Waste gas burner
9. Rail car loading track
10. Storage tanks

\* This plant is also known as the Transcaucasian Metallurgical Plant and the Zakavkazskiy Iron and Steel Plant.

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- C. Iron Producing Area
  - 1. Sintering plant
  - 2. Blast furnaces (two)
  - 3. Raw material stockyard
  - 4. Traveling bridge cranes
  - 5. Tracks on trestle
  - 6. Blower house
  - 7. Casting shed
  - 8. Settling tanks
  - 9. Covered conveyors
- D. Steel Producing Area
  - 1. Lime and dolomite preparation
  - 2. Ore storage
  - 3. Open hearth building with 8 furnaces
  - 4. Casting shed
  - 5. Mold preparation yard
  - 6. Slag yard
  - 7. Scrap preparation yard
  - 8. Cooling tower
  - 9. Possible test building
  - 10. Gantry crane
  - 11. Overhead cranes
- E. Blooming Mill Complex
  - 1. Heavy merchant mill
  - 2. Tube mill
  - 3. Blooming stock
  - 4. Blooming mill
  - 5. Soaking pits
  - 6. Stripping yard
  - 7. Administration building
- F. Pipe Rolling Complex
  - 1. Pipe rolling mill
  - 2. Administration building
- G. Thermal Electric Power Plant
  - 1. Covered conveyor
  - 2. Stacks
  - 3. Storage tank
  - 4. Boilerhouse
  - 5. Turbine hall
  - 6. Control hall
  - 7. Substation

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H. Supporting Shops

1. Railway repair shop
2. Gantry crane
3. Metal construction shop
4. Overhead crane
5. Foundry
6. Food depot
7. Carpenter shop
8. Administration buildings
9. Fabrication shop
10. Forge shop
11. Electrical workshop
12. Open storage

J. Main Administration Area

1. Fire house
2. Fire lookout tower

K. New Construction

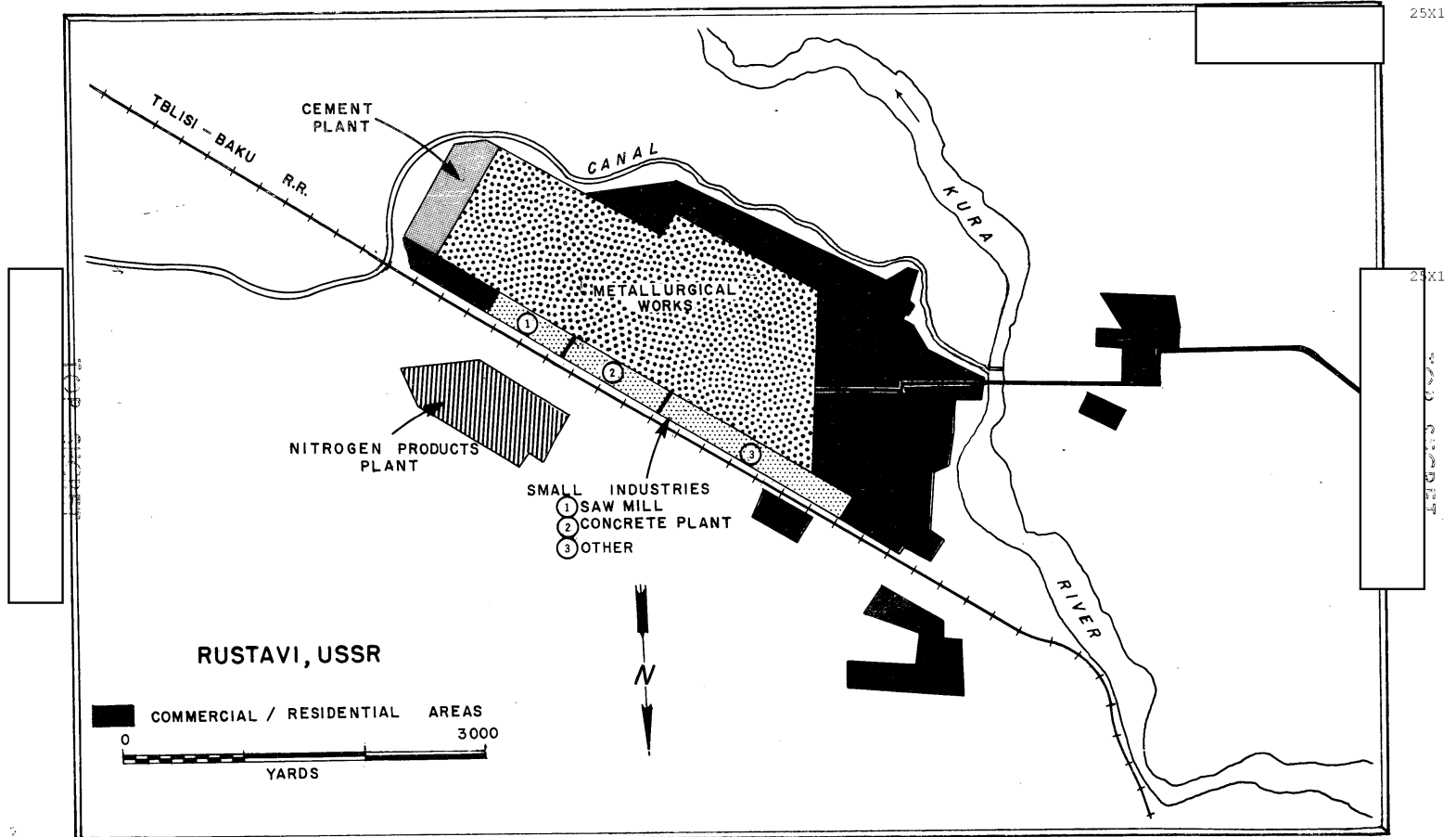
L. Railroad Station House

M. Scrap Iron Storage Yard

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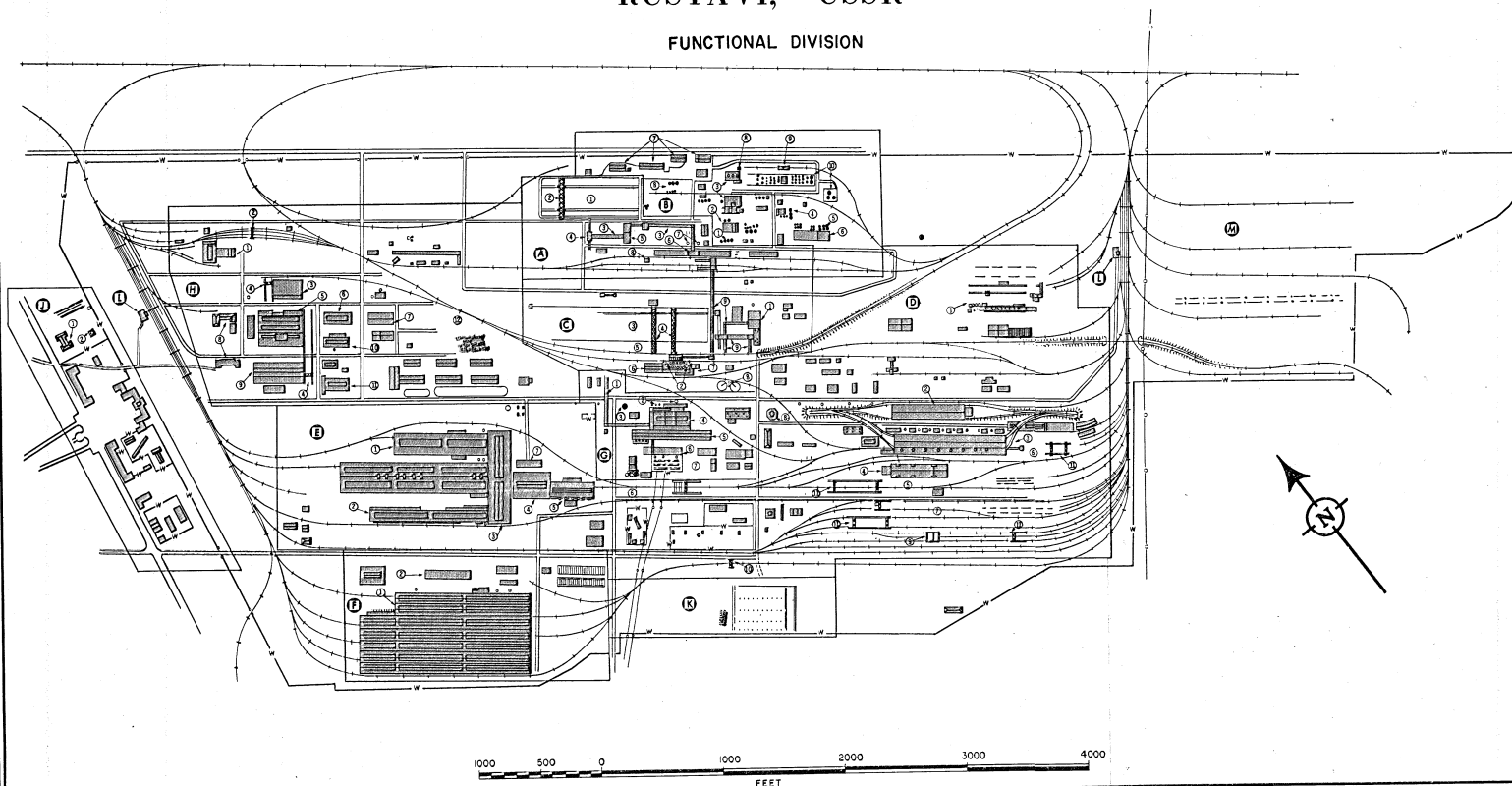
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# RUSTAVI METALLURGICAL WORKS

## RUSTAVI, USSR

FUNCTIONAL DIVISION



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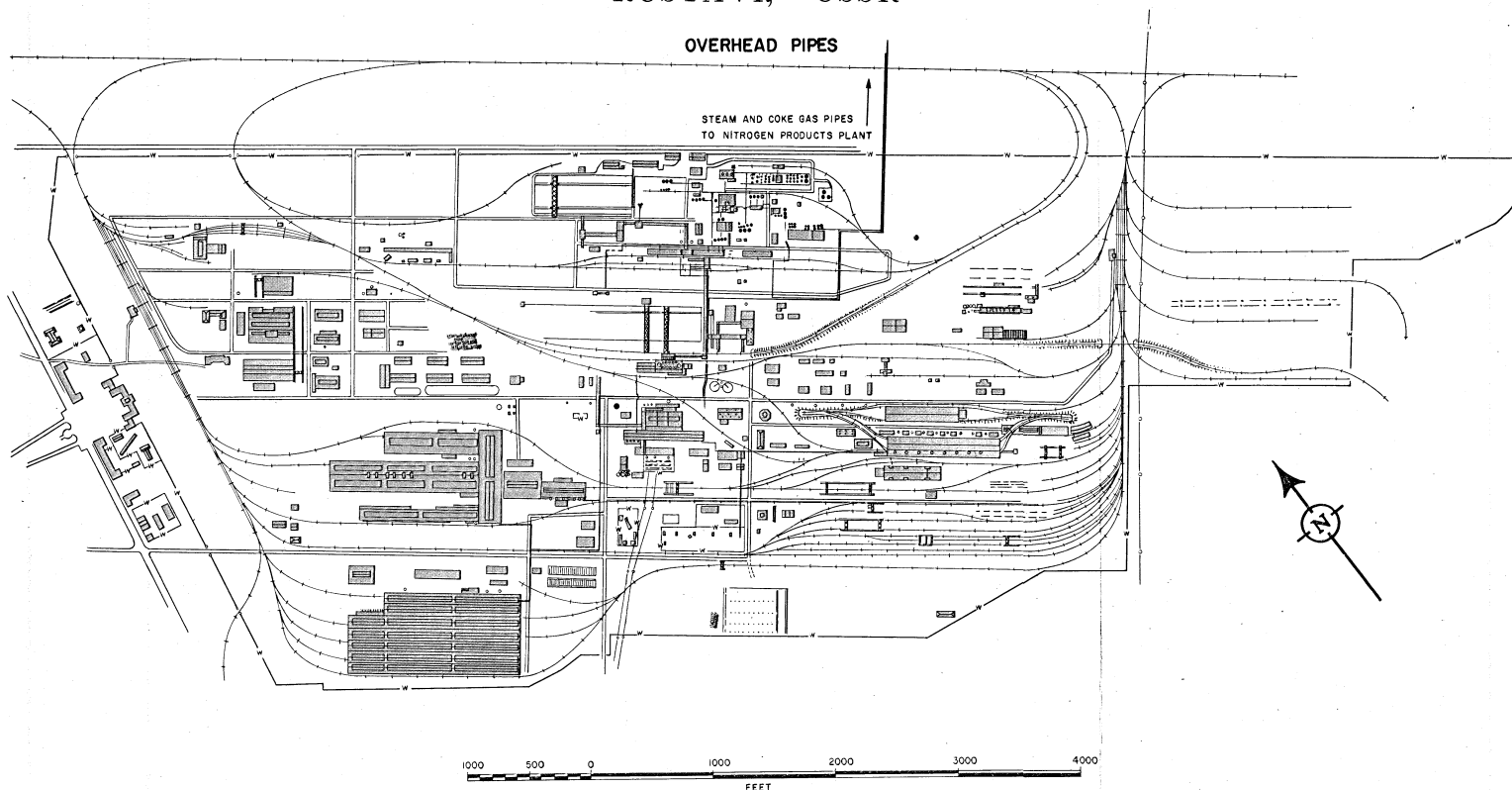
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# RUSTAVI METALLURGICAL WORKS

## RUSTAVI, USSR



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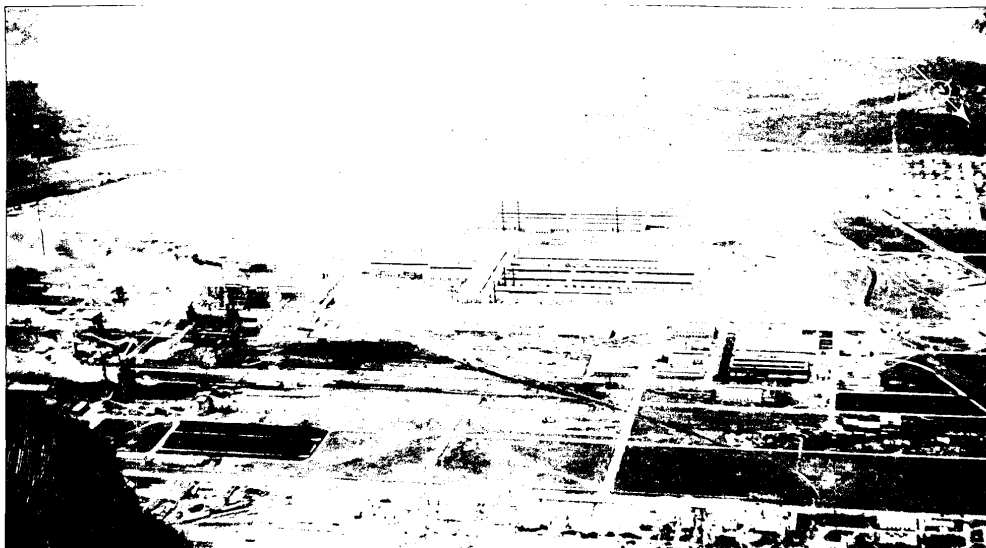
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WESTERN HALF OF RUSTAVI METALLURGICAL WORKS AND THE EASTERN PORTION OF THE RUSTAVI COMMERCIAL AND RESIDENTIAL AREA.

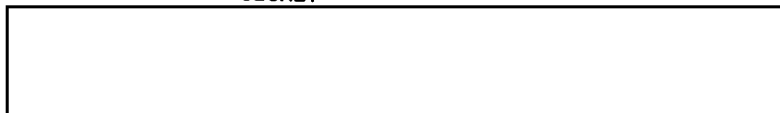


RUSTAVI METALLURGICAL WORKS. FOREGROUND: SMALL SCALE INDUSTRIES, COKE OVEN AREA, IRON PRODUCING AREA, THERMAL ELECTRIC POWER PLANT, AND SUPPORTING SHOPS. BACKGROUND: BLOOMING MILL COMPLEX AND PIPE ROLLING COMPLEX.

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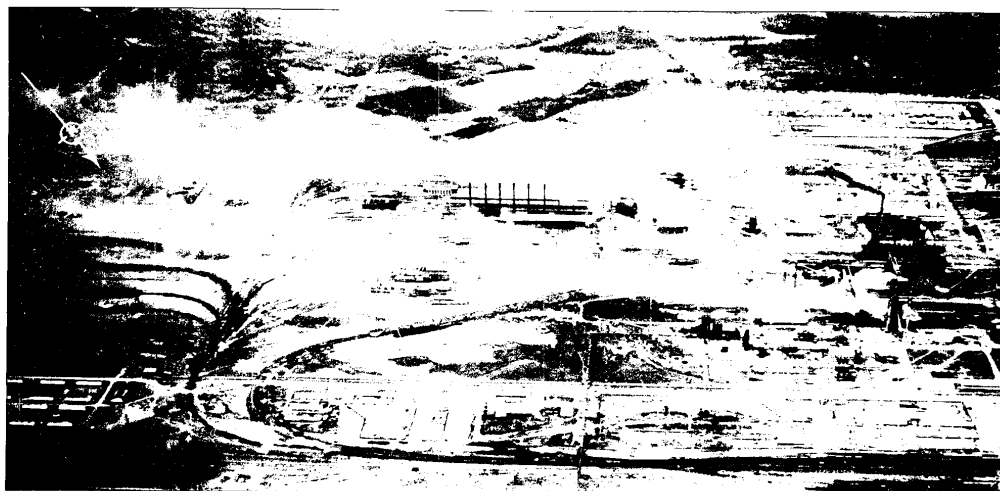
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RUSTAVI METALLURGICAL WORKS. FOREGROUND: RAILROAD CLASSIFICATION YARD, SMALL SCALE INDUSTRIES, COKE OVENS, BY-PRODUCTS PLANT, IRON PRODUCING AREA, AND SUPPORTING SHOPS. BACKGROUND: THERMAL ELECTRIC POWER PLANT, PORTION OF STEEL PRODUCING AREA, BLOOMING AND PIPE ROLLING MILLS.



CENTER PORTION OF RUSTAVI METALLURGICAL WORKS. FOREGROUND: PORTION OF NEW HOUSING DEVELOPMENT, SMALL SCALE INDUSTRIES, RAILROAD CLASSIFICATION YARD, SCRAP IRON STORAGE YARD, LIME AND DOLOMITE PREPARATION, COKE OVENS AND BY-PRODUCTS PLANT. BACKGROUND: STEEL PRODUCING AREA, IRON PRODUCING AREA, AND THERMAL ELECTRIC POWER PLANT.

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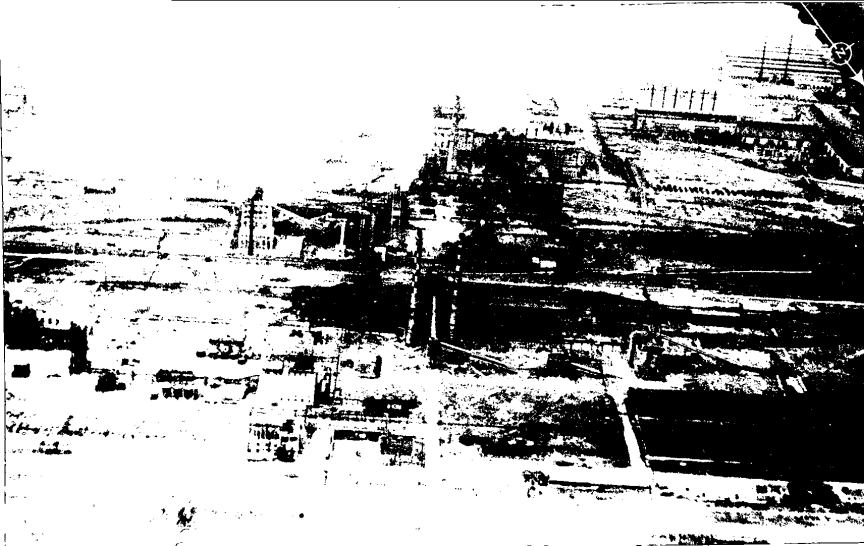


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CENTER PORTION OF RUSTAVI METALLURGICAL WORKS.  
FOREGROUND: BY-PRODUCTS PLANT, COKE OVENS, AND  
COAL STORAGE. BACKGROUND: TWO BLAST FURNACES,  
AND THERMAL ELECTRIC POWER PLANT



EASTERN PORTION OF RUSTAVI METALLURGICAL WORKS.  
FOREGROUND: POWER SUBSTATION AND NEW HOUSING  
DEVELOPMENT. BACKGROUND: CEMENT PLANT, SCRAP  
IRON STORAGE YARD, AND PORTION OF STEEL PRODUCING  
AREA.

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